

SAP Business Intelligence Reporting

BI Environment

Washington State HRMS Business Intelligence (BI)

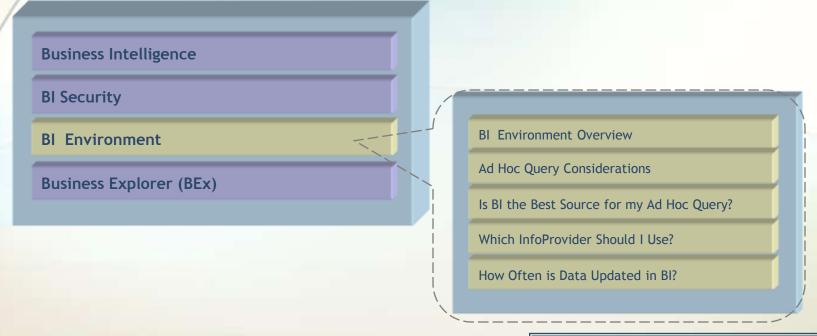
BI Power User Workshop Materials

General Topics - BI Power User



BI Environment

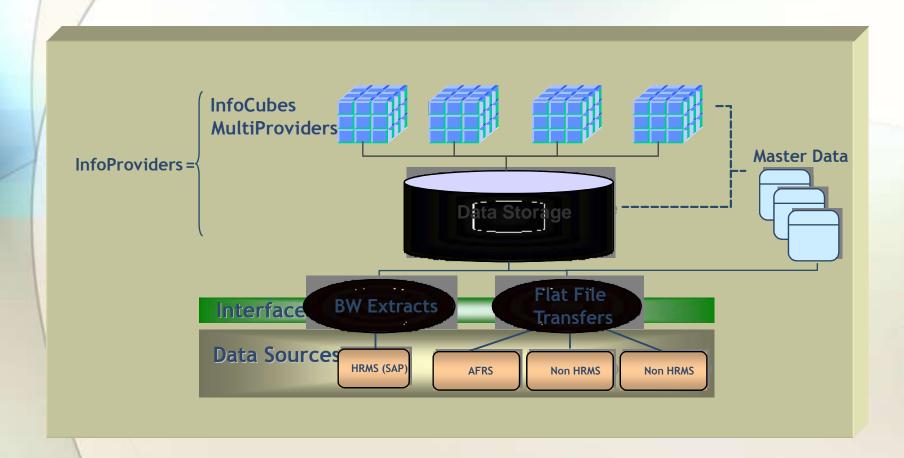
The following section provides an overview of the BI Environment.





BI Environment Overview

The following diagram provides a high level view of the environment of the Business Intelligence and how data is retrieved and stored:





Ad Hoc Query Considerations

Before creating an ad hoc query, BI Power Users need to understand the business requirements for the ad hoc query.

The following sections include considerations BI Power Users need to address prior to creating an ad hoc query in the BI:

- Is BI the Best Source for my Ad Hoc Query?
- Which InfoProvider Should I Use?
- How often is Data Updated in the BI?





Is BI the Best Source for my Ad Hoc Query?

To determine if BI is the best source for an ad hoc query, BI Power Users need to consider:

- Does the ad hoc query require real-time data?
- Does the BI contain data required for the ad hoc query? (For example, if Pay Period is required for the ad hoc query, BI will not be the best source since Pay Period is not included in BI).
- Is there an existing report in HRMS?
- Is there an existing report in HRMS BI?



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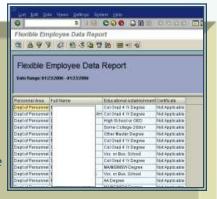
Is BI the Best Source for my Ad Hoc Query, cont...

HRMS contains two basic report types:

- 1. HRMS Reports: Includes SAP Delivered reports and Custom reports for the State of Washington. Contains real-time data.
- 2. HRMS Business Intelligence Reports: Includes Custom reports for the State of Washington. Does not contain real-time data.

HRMS Reports

- HRMS reports are accessed in HRMS
- Includes SAP Delivered reports and Customized Reports for the State of Washington
- Provides ability to report from "real-time" data since the data is maintained in the HRMS application



HRMS BI Reports

- Accessible through the HRMS Portal
- Includes Customized Reports for the State of Washington
 - Provides the ability to report
 from specific data that has been
 extracted and loaded from HRMS and other sources such as
 AFRS
- This is NOT "real-time" data since the data is not maintained within the HRMS BI application

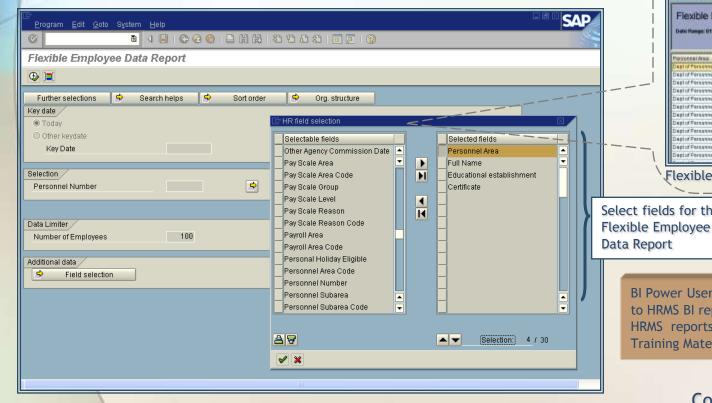


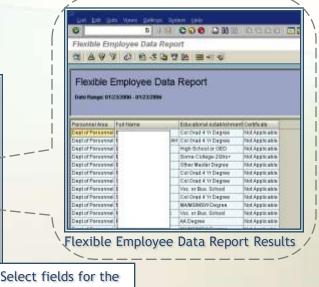


Is BI the Best Source for my Ad Hoc Query, cont...

If an ad hoc query requires real-time data, HRMS may be the appropriate source for retrieving data. HRMS provides many options for data retrieval. For example, the Flexible Employee Data Report (Transaction: ZHR_RPTPANO2) in HRMS allows the user to select fields to include on the report.

In the example below, the Flexible Employee Data Report was used to retrieve data for Personnel Area, Full Name, Educational Establishment and Certificate fields.





BI Power User Workshop materials are specific to HRMS BI reports and ad hoc queries only. HRMS reports are covered in separate HRMS Training Materials.

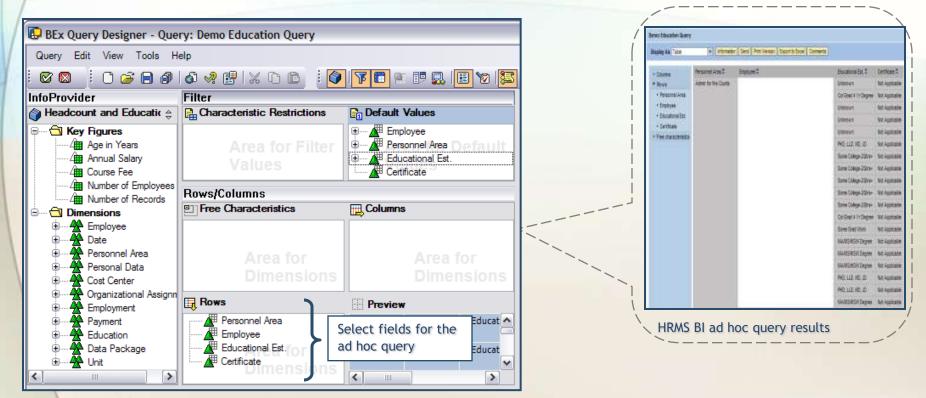
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Is BI the Best Source for my Ad Hoc Query, cont...

If an ad hoc query does not require real-time data, HRMS BI may be the appropriate source for retrieving data.

In the example below, the Headcount and Education MultiCube in HRMS BI was used to retrieve data for Personnel Area, Employee Name, Educational Establishment and Certificate fields.





Which InfoProvider Should I Use?

Once BI Power Users have determined the BI is the best source for the ad hoc query, they need to determine which InfoProvider to use.

For example:

- The Quota Data InfoCube contains quota and accrual balances.
- > The Headcount and Education MultiCube contains education and training information

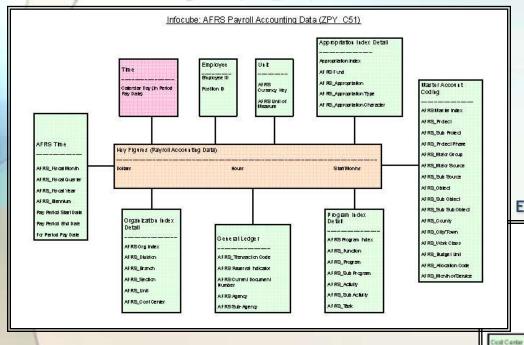
The table below lists BI InfoProviders with examples of how the InfoProvider might be used:

InfoProvider	InfoProvider Type	Example of Use
AFRS Payroll Accounting Data (ZPY_C51)	InfoCube	> Employee and Position level Payroll and Financial information provided by AFRS
Employee Specific Payroll Data (ZPY_M01)	InfoCube	Wage types by Personnel Area and/or EmployeeEmployee count by Wage Type
Employee Specific Payroll Data w/PA (ZPY_M02)	MultiCube	Combines data from Employee Specific Payroll Data (ZPY_M01) and Headcount and Personnel Actions (ZPA_C01)
Headcount and Education (ZPA_M50)	MultiCube	 Number of records by Educational Establishment, Certificate and Education/Training Employee list by Educational Establishment, Certificate and Education/Training
Headcount and Personnel Actions (ZPA_C01)	InfoCube	 Summary level employee counts by demographic areas such as Gender, County Code, Employee Group, etc. Detail level employee counts by employee specific information such as Employee Name, Personnel ID, etc. Employee count by personnel Action Type or Action Reason Employee list by personnel Action Type or Action Reason
Quota Data (ZPT_M02)	InfoCube	> Quota accrual and balances by Personnel Area and/or Employee
Staffing Assignments (ZPAOS_C01)	InfoCube	 Position count by Organizational Unit and/or Job Class Position list by Organizational Unit and/or Job Class
Time and Labor (ZPT_M01)	InfoCube	> Time balances and accruals by Personnel Area and/or Employee
Grievance Data (ZGR_M01)	MultiCube	> Grievance data by Bargaining Unit.
E-Recruiting Data (ZPAER_M01)	MultiCube	E-Recruiting data by Requisition, Hiring Mgr and/or Questionnaires.



The following designs display the reporting elements included in the BI InfoProviders:

AFRS Payroll Accounting Data (ZPY_C51) - Financials InfoCube



Employee Specific Payroll Data (ZPY_M01) InfoCube

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InfoCube: Employee Specific Payrol Data (0PY, C02)

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InfoProvider Designs can be viewed from the HRMS Support website:

http://www.dop.wa.gov/payroll/HRMS/Training/Pages/BusinessIntelligenceTraining.aspx

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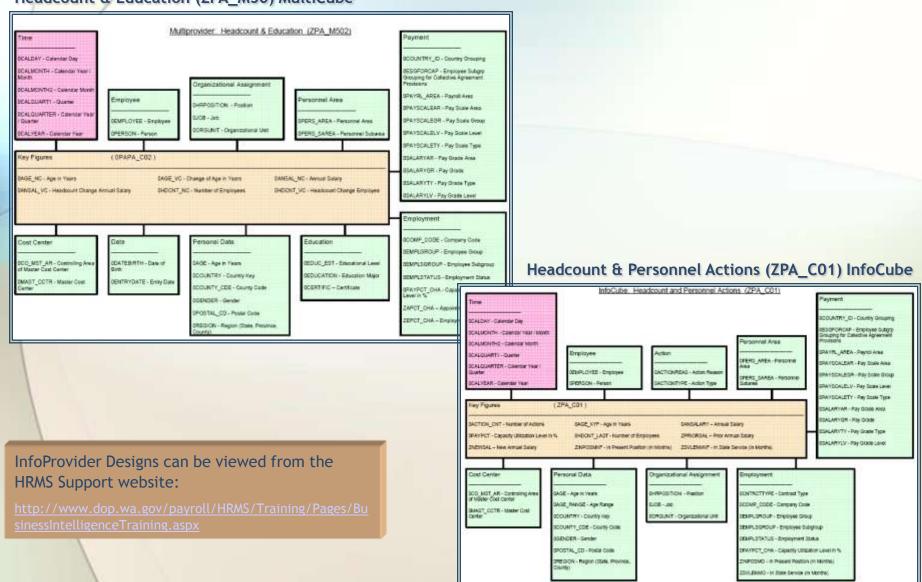
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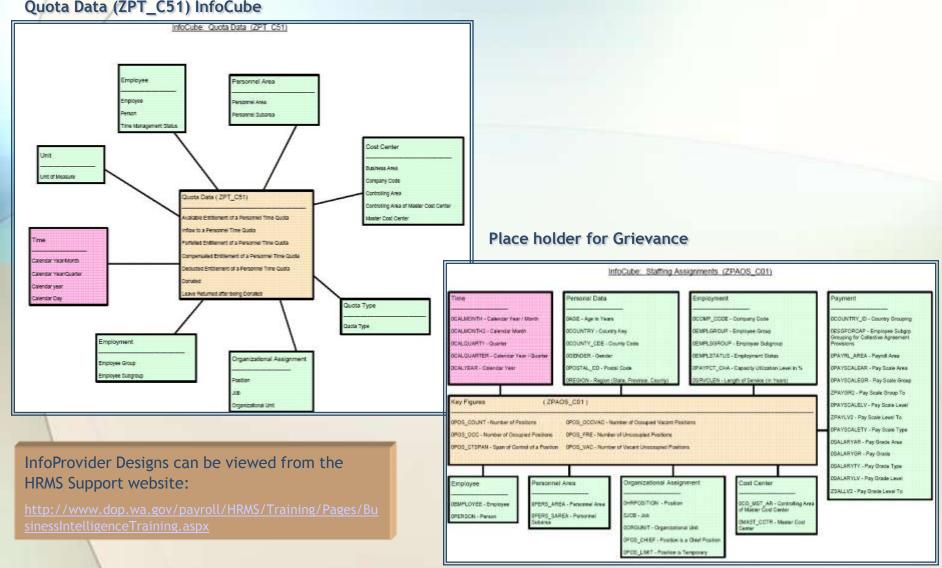


Headcount & Education (ZPA_M50) MultiCube



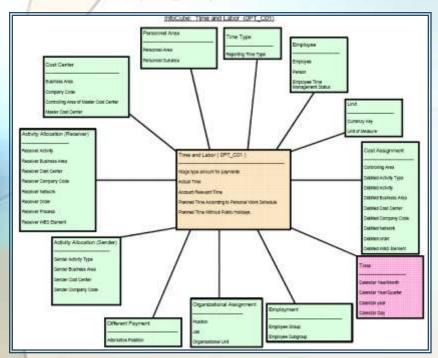


Quota Data (ZPT_C51) InfoCube





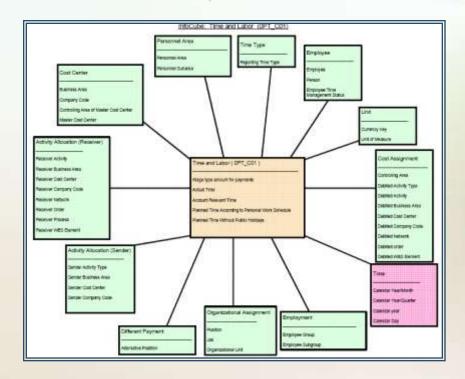
Time and Labor (ZPT_C01) InfoCube



InfoProvider Designs can be viewed from the HRMS Support website:

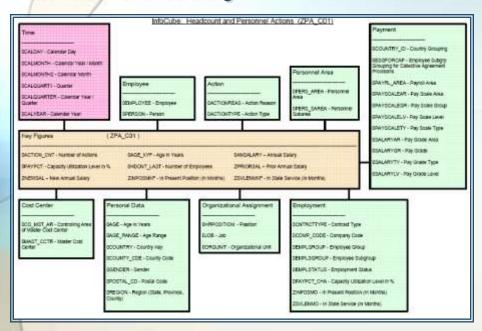
http://www.dop.wa.gov/payroll/HRMS/Training/Pages/BusinessIntelligenceTraining aspx

Place holder for EE specific with PA





Place holder for E-Recruiting



InfoProvider Designs can be viewed from the HRMS Support website:

http://www.dop.wa.gov/payroll/HRMS/Training/Pages/BusinessIntelligenceTraining.aspx



How Often is Data Updated in BI?

Once BI Power Users have determined which InfoProvider to use for an ad hoc query, they need to also consider how often the data is updated in the BI since it is not real-time data and update frequencies vary. The table below provides an overview of the update frequency of each InfoProvider in BI.

InfoProvider	Update Frequency	Data Load Schedule
AFRS Payroll Accounting Data (ZPY_C51)	Daily (note: AFRS Payroll Accounting Transactional Data will be updated when an adjustment has been made and a new AFRS file is available. If no adjustments have occurred, AFRS Payroll Accounting Transactional Data will be updated after the next payroll exit)	Daily
Headcount and Personnel Actions (ZPA_C01)	Daily	Daily
Employee Specific Payroll Data (ZPY_M01)	Semi-Monthly	After Payroll Exit
Employee Specific Payroll Data w/PA (ZPY_M02)	Semi-Monthly	After Payroll Exit
Quota Data (ZPT_M02)	Monthly	1st Friday/mo*
Time and Labor (ZPT_M01)	Semi-Monthly	After Payroll Exit
Headcount and Education (ZPA_M50)	Weekly	Friday
Staffing Assignments (ZPAOS_C01)	Weekly	Friday
Grievance (ZGR_M01)	Weekly	Friday
E-Recruiting (ZPAER_M01)	Weekly	Friday

^{*}In the months that HRMS Payroll processing is scheduled to occur over the first Friday of the month, the BI load will be rescheduled. Usually for the second Friday of the month.



How Often is Data Updated in BI, Cont...

The table below provides an overview of the update frequency for the most commonly used Master Data in BI.

Master Data	Update Frequency	Data Load Schedule
Employee	Daily	Daily
Person	Daily	Daily
Company Code	Weekly	Friday
Contract Type	Weekly	Friday
Job	Weekly	Friday
Org Unit	Weekly	Friday
Pay Grade Level	Weekly	Friday
Pay Grade Level To	Weekly	Friday
Pay Scale	Weekly	Friday
Pay Scale Level	Weekly	Friday
Pay Scale Level To	Weekly	Friday
Position	Weekly	Friday



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How Often is Data Updated in BI, cont...

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While an InfoProvider may be updated Weekly, Master Data that is being referenced in the InfoProvider may be updated daily.

The following illustration provides an example of different update frequencies for InfoProviders and Master Data using the Staffing Assignments InfoCube as an example.

The Position that is being used for the Employee Characteristic in the Employee Dimension of the Staffing Assignments InfoCube will be updated DAILY since Employee Master Data is scheduled to be updated DAILY. Staffing Assignments InfoCube - Weekly Employee Master Data - DAILY **Employee Dimension Employee Master Data** Attributes of Employee Master Data > Employee Characteristic Personnel Number - Personnel Area Master Data **Kev Figures** Position Master Data > Position Employment Percent > Person Characteristic ➤ Number of Positions Key Figure Employee Group Unoccupied Positions Key Figure Organizational Assignment Dimension > Organizational Unit Characteristic > Position Characteristic > Job Characteristic The Position that is being used as a Characteristic in the Organizational Assignment Dimension of the Staffing Assignments InfoCube is scheduled to be updated Weekly since the Staffing Assignments InfoCube is scheduled to be updated Weekly.